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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/698,606	10/30/2003	Sumit Roy	200313378-1	9857
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HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400			EXAMINER DUONG, CHRISTINE T	
			ART UNIT 2616	PAPER NUMBER
			NOTIFICATION DATE 01/15/2008	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

JERRY.SHORMA@HP.COM
mkraft@hp.com
ipa.mail@hp.com

Office Action Summary

Application No.

10/698,606

Applicant(s)

ROY ET AL.

Examiner

Christine Duong

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 October 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-26 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

This is in response to the Applicant's arguments and amendments filed on 16 October 2007 in which claims 1-26 are currently pending.

Claim Rejections - 35 USC § 102

1. Claims 9-13, 14, 16, 22-24, 26 are rejected under 35 U.S.C. 102(b) as being anticipated by White et al. (PG Pub US 2002/0049979 A1, hereafter White).

Regarding claims **9 and 22**, White disclose a method and computer-usable medium having computer-readable program code embodied therein for causing a network mixing device to perform a method of streaming media, said method (figs. 1-3) comprising:

receiving a plurality of media streams, said plurality of media streams having a mutual downstream destination and respective initial bandwidths associated therewith ("event 100 is viewed and recorded by the four cameras 102A to 102D. The images from cameras 102A to 102D is captured and edited by system 110. System 110 creates two streams of video data. One stream is the images captured by "one" selected camera. The second stream consists of 'thumbnails" (i.e. small low resolution images) of the images captured by each of the four cameras 102A to 102D" [0023] lines 3-11 and "the two video streams are sent to a user terminal and display 111" [0024] lines 1-2 and flowing table showing the bandwidth requirements of various configurations [0054]);

performing a service on each of said plurality of media streams, said service reducing a respective initial bandwidth of each of said plurality of media stream ("a low resolution version of each data stream is created. Creating the low resolution image in effect shrinks the size of the images. If desired the frame rate can be reduced by eliminating frames in order to further reduce the bandwidth required" [0026] lines 3-9);

streaming said plurality of media streams at less than their respective initial bandwidths ("the four thumbnail images have a lower resolution and all four thumbnail images can be transmitted as a single data stream" [0024] lines 8-10);

selecting at least one media stream from said plurality of media streams ("images from the camera associated with the thumbnail which was clicked are transmitted as the focus stream" [0025] lines 15-17); and

streaming said at least one media stream at its initial bandwidth ("Stream F is the focus stream of images which transmits the high resolution images which appear on the user's display" [0027] lines 9-11).

Regarding claims **10 and 23**, White disclose everything claimed as applied above (see claims 9 and 22 respectively). In addition, White discloses said service comprises a transcoding operation ("a low resolution version of each data stream is created. Creating the low resolution image in effect shrinks the size of the images. If desired the frame rate can be reduced by eliminating frames in order to further reduce the bandwidth required" [0026] lines 3-9).

Regarding claims **11 and 24**, White disclose everything claimed as applied above (see claims 10 and 22 respectively). In addition, White discloses said

transcoding operation is selected from the group consisting of bitrate reduction, rate shaping, spatial downsampling, spatial resolution reduction, frame rate reduction, key frame selection, a change in compression format, data packet elimination, and data packet truncation ("a low resolution version of each data stream is created. Creating the low resolution image in effect shrinks the size of the images. If desired the frame rate can be reduced by eliminating frames in order to further reduce the bandwidth required" [0026] lines 3-9).

Regarding claim 12, White disclose everything claimed as applied above (see claim 9). In addition, White discloses receiving information identifying a type of service to be performed ("If desired the frame rate can be reduced by eliminating frames in order to further reduce the bandwidth required" [0026] lines 7-9).

Regarding claim 13, White disclose everything claimed as applied above (see claim 9). In addition, White discloses a single device receives said media streams and performs said service ("The images from cameras 102A to 102D is captured and edited by system 110" [0023] lines 5-6).

Regarding claim 14, White disclose everything claimed as applied above (see claim 9). In addition, White disclose said media streams are received at respective devices, each device servicing a respective media stream ("Each handler is specialized and can handle a specific type of stream. For example one handler handles the thumbnail stream and another handler handles the focus stream. The thumbnail handler divides the composite images in the thumbnail stream into individual images. The

handlers use a set of decoding, decompression and parsing programs 455A to 455B as appropriate" [0038] lines 9-15).

Regarding claims **16 and 26**, White disclose everything claimed as applied above (see claims 9 and 22 respectively). White discloses recording said media streams prior to said performing of said service ("an event 100 is viewed and recorded by the four cameras 102A to 102D" [0023] lines 3-4).

2. Claims 1-5, 8, 17-19, 21 are rejected under 35 U.S.C. 102(e) as being anticipated by Phillips et al. (PG Pub US 2005/0052578 A1, hereafter Phillips).

Regarding claims **1 and 17**, Phillips disclose a method and computer-usable medium having computer-readable program code embodied therein for causing a network mixing device to perform a method of streaming media, said method (fig. 7b) comprising:

receiving a plurality of media streams (full channel A 710a and full channel B 720a, fig. 7c), said plurality of media streams having a mutual downstream destination (display device 750, fig. 7c) and a total bandwidth associated therewith ("Video signal A 530 may be formatted as a higher resolution, larger size, and/or lower compression than that of video signal B 532. This can be done to save transmission bandwidth without significantly degrading the end user's enjoyment" [0126] lines 5-9);

receiving information allowing identification of a selected media stream from said plurality of media streams ("Using such a selector, a user can indicate a source of video information, or other data that the user desires to be displayed on the full screen of home appliance 550, or a portion of home appliance 550" [0120] lines 20-23);

performing a service on each of said plurality of media streams except for said selected media stream, said service reducing a respective initial bandwidth of each of said plurality of media streams other than said selected media stream so that said total bandwidth is reduced ("full channel A 710a is transmitted to NID 520 as video signal A 530. In addition, full channel B 720a is reduced, to form reduced channel B 720c. Reduced channel B 720c is then transmitted to NID 520 as video signal B 532. Reduced channel B 720c can be reduced in size, resolution, and/or bandwidth" [0131] lines 3-8); and

streaming said plurality of media streams, wherein said plurality of media streams other than said selected media stream are streamed at less than their respective initial bandwidths ("NID 520 forms a composite signal with the reduced channel B 720c, represented as an image 720b, superimposed over full channel 710a, represented as an image 710b. The composite signal is then provided to a display device that displays an image. 750" [0131] lines 12-16).

Regarding claims **2 and 18**, Phillips disclose everything claimed as applied above (see claims 1 and 17 respectively). In addition, Phillips disclose said service comprises a transcoding operation ("Reduced channel B 720c can be reduced in size, resolution, and/or bandwidth" [0131] lines 3-8).

Regarding claims **3 and 19**, Phillips disclose everything claimed as applied above (see claims 2 and 17 respectively). In addition, Phillips disclose said transcoding operation is selected from the group consisting of bitrate reduction, rate shaping, spatial downsampling, spatial resolution reduction, frame rate reduction, key frame selection, a

change in compression format, data packet elimination, and data packet truncation ("Reduced channel B 720c can be reduced in size, resolution, and/or bandwidth" [0131] lines 3-8).

Regarding claim 4, Phillips disclose everything claimed as applied above (see claim 1). In addition, Phillips disclose receiving information identifying a type of service to be performed ("The user can further indicate that channel ten is one eighth the size of the full screen, or one eighth the size of the main screen" [0121] lines 5-7).

Regarding claim 5, disclose everything claimed as applied above (see claim 1). In addition, Phillips disclose a single device receives said plurality of media streams and performs said service ("head end server 510 reduces fill channel B 720a prior to transmitting to NID 520" [0131] lines 1-3).

Regarding claims 8 and 21, Phillips disclose everything claimed as applied above (see claims 1 and 17 respectively). In addition, Phillips disclose recording said media streams prior to said performing of said service ("One application device 246 that may be included is a digital-recorder application device, which could provide a mechanism for digital recording of all forms of information incoming to the AND 200 and make them accessible to a user at the customer premises. The information that could be recorded includes video, data, voice, among other types of information" [0090] lines 8-13).

Claim Rejections - 35 USC § 103

3. Claims 15, 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over White.

Regarding claims **15 and 25**, White disclose everything claimed as applied above (see claims 9 and 22 respectively). However, White fail to specifically disclose said selecting is made according to an edit list comprising instructions for editing said media streams.

Nevertheless, in another embodiment, White teaches "The interactivity markup stream S3 describes regions of the presentation which provide for addition user interaction. For example there may be a button and clicking on this button might cause something to happen. The interactivity markup stream consists of a series of encoded commands which give type and position information" ([0049] lines 1-6).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to make said selecting according to an edit list comprising instructions for editing said media streams because it will "provide for additional user interaction" (White [0049] lines 2-3):

4.. Claims 6-7 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Phillips further in view of White.

Regarding claim **6**, Phillips disclose everything claimed as applied above (see claim 1). However, Phillips fail to specifically disclose said plurality of media streams are received at respective devices, each device servicing a respective media stream.

Nevertheless, White teaches "Each handler is specialized and can handle a specific type of stream. For example one handler handles the thumbnail stream and another handler handles the focus stream. The thumbnail handler divides the composite images in the thumbnail stream into individual images. The handlers use a set of

decoding, decompression and parsing programs 455A to 455B as appropriate" (White [0038] lines 9-15).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have said plurality of media streams received at respective devices, each device servicing a respective media stream because "any handler can use any appropriate decoder and parser to process image data as appropriate" (White [0038] lines 21-23).

Regarding claims **7 and 20**, Phillips disclose everything claimed as applied above (see claims 1 and 17 respectively). However, Phillips fail to specifically disclose said information is generated according to an edit list comprising instructions for editing said plurality of media streams.

Nevertheless, White teaches "The interactivity markup stream S3 describes regions of the presentation which provide for addition user interaction. For example there may be a button and clicking on this button might cause something to happen. The interactivity markup stream consists of a series of encoded commands which give type and position information" (White [0049] lines 1-6).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to generate said information according to an edit list comprising instructions for editing said plurality of media streams because it will
"provide for additional user interaction" (White [0049] lines 2-3).

Response to Arguments

Previous objection to 1, 5-9, 13-17, 20-22, 25-26 are withdrawn in view of Applicant's amendment.

5. Applicant's arguments with respect to claims 1, 9, 13, 15-17, 22, 25-26 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christine Duong whose telephone number is (571) 270-1664. The examiner can normally be reached on Monday - Friday: 830 AM-6 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on (571) 272-3174. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CTD 01/03/2008 CTD

Seema S. Rao
SEEMA S. RAO 1/7/08
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800